DEAD LOADS

COMPONENT		kN/m³
Bituminous Products:		
	Asphaltum	**12.73**
	Graphite	**21.21**
	Paraffin	**8.80**
	Petroleum, crude	**8.64**
	Petroleum, refined	**7.86**
	Petroleum, benzine	**7.23**
	Petroleum, gasoline	**6.60**
	Pitch	**10.84**
	Tar	**11.79**
Brass		**82.66**
Bronze		**86.74**
Cast-stone masonry (cement, stone, sand)		**22.63**
Cement, portland, loose		**14.14**
Ceramic tile		**23.57**
Charcoal		**1.89**
Cinder fill		**8.96**
Cinders, dry, in bulk		**7.07**
Coal:		
	Anthracite, piled	**8.17**
	Bituminous, piled	**7.39**
	Lignite, piled	**7.39**
	Peat, dry, piled	**3.61**
Concrete, plain:		
	Cinder	**16.97**
	Expanded-slag aggregate	**15.71**
	Haydite (burned-clay) aggregate	**14.14**
	Slag	**20.74**
	Stone (including gravel)	**22.63**
	Vermiculite and perlite aggregate, nonload-bearing	**3.93~7.86**
	Other light aggregate, load-bearing	**11.00~16.50**
Concrete, reinforced:		
	Cinder	**17.44**
	Slag	**21.69**
	Stone (including gravel)	**23.57**
Copper		**87.37**
Cork, compressed		**2.26**
Earth (not submerged):		
	Clay, dry	**9.90**
	Clay, damp	**17.29**
	Clay and gravel, dry	**15.71**
	Silt, moist, loose	**12.26**
	Silt, moist, packed	**15.09**
	Silt, flowing	**16.97**
	Sand and gravel, dry, loose	**15.71**
	Sand and gravel, dry, packed	**17.29**
	Sand and gravel, wet	**18.86**

Earth (submerged):		
	Clay	**12.57**
	Soil	**11.00**
	River mud	**14.14**
	Sand or gravel	**9.43**
	Sand or gravel, and clay	**10.21**
Gravel, dry		**16.34**
Gypsum, loose		**11.00**
Gypsum wallboard		**7.86**
Ice		**8.99**
Iron:		
	Cast	**70.71**
	Wrought	**75.43**
Lead		**111.57**
Lime:		
	Hydrated, loose	**5.03**
	Hydrated, compacted	**7.07**
Masonry, ashlar:		
	Granite	**25.93**
	Limestone, crystalline	**25.93**
	Limestone, oolitic	**21.21**
	Marble	**27.19**
	Sandstone	**22.63**
Masonry, brick:		
	Hard (low absorption)	**20.43**
	Medium (medium absorption)	**18.07**
	Soft (high absorption)	**15.71**
Masonry, rubble mortar:		
	Granite	**24.04**
	Limestone, crystalline	**23.10**
	Limestone, oolitic	**21.69**
	Marble	**24.51**
	Sandstone	**21.53**
Mortar, hardened:		
	Cement	**20.43**
	Lime	**17.29**
Particleboard		**7.07**
Plywood		**5.66**
Riprap (not submerged):		
	Limestone	**13.04**
	Sandstone	**14.14**
Sand:		
	Clean and dry	**14.14**
	River, dry	**16.66**
Slag:		
	Bank	**11.00**
	Bank screenings	**16.97**
	Machine	**15.09**
	Sand	**8.17**

Slate		**27.03**
Steel		**76.84**
Stone, quarried, piled:		
	Basalt, granite, gneiss	**15.09**
	Limestone, marble, quartz	**14.93**
	Sandstone	**12.89**
	Shale	**14.46**
	Greenstone, hornblende	**16.81**
Terra cotta, architectural:		
	Voids filled	**18.86**
	Voids unfilled	**11.31**
Tin		**72.13**
Water:		
	Fresh	**9.81**
	Sea	**10.06**
Wood, seasoned:		
	Ash, commercial white	**6.44**
	Cypress, southern	**5.34**
	Fir, Douglas, coast region	**5.34**
	Hem fir	**4.40**
	Oak, commercial and reds and whites	**7.39**
	Pine, southern yellow	**5.81**
	Redwood	**4.40**
	Spruce, red, white, and sitka	**4.56**
	Western hemlock	**5.03**
Zinc, rolled, sheet		**70.56**

Source : Chris Buczkowski, 2000 (http://www.structural-engineering.fsnet.co.uk)